

Title (en)
SECURE PROVISION OF UNDETERMINED DATA FROM AN UNDETERMINED SOURCE INTO THE LOCKING SCRIPT OF A BLOCKCHAIN TRANSACTION

Title (de)
SICHERE BEREITSTELLUNG VON UNBESTIMMTEN DATEN AUS EINER UNBESTIMMTEN QUELLE IN DAS LOCKING-SCRIPT EINER BLOCKCHAIN-TRANSAKTION

Title (fr)
FOURNITURE SÉCURISÉE DE DONNÉES NON DÉTERMINÉES À PARTIR D'UNE SOURCE NON DÉTERMINÉE DANS LE SCRIPT DE VERROUILLAGE D'UNE TRANSACTION EN CHAÎNE DE BLOCS

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Abstract (en)
The invention relates to distributed ledger technologies such as consensus-based blockchains. Computer-implemented methods for securely providing undetermined data from a determined or undetermined source are described. The invention is implemented using a blockchain network, which may be, for example, a Bitcoin blockchain. A first transaction to validate is received at a node in a blockchain network, with the first transaction including a first script that includes at least a first value, at least a portion of which includes data that is unconstrained by a second script, and a second value. A second transaction is obtained. The second transaction having been validated and including the second script that, as a result of being executed, causes the node to obtain the first value and the second value as a result of execution of the first script, and validate, based at least in part on first value and the second value, that the data is associated with a data source. The first transaction is validated by executing the first script and the second script.

IPC 8 full level
G06Q 20/36 (2012.01); **H04L 9/32** (2006.01)

CPC (source: CN EP KR US)
G06F 16/2379 (2019.01 - US); **G06F 21/6209** (2013.01 - KR US); **G06F 21/64** (2013.01 - CN EP KR); **G06F 21/645** (2013.01 - US); **G06Q 20/065** (2013.01 - CN KR US); **G06Q 20/0658** (2013.01 - US); **G06Q 20/223** (2013.01 - CN KR); **G06Q 20/36** (2013.01 - EP US); **G06Q 20/3674** (2013.01 - CN US); **G06Q 20/382** (2013.01 - KR); **G06Q 20/3825** (2013.01 - CN US); **G06Q 20/3827** (2013.01 - CN); **G06Q 20/3829** (2013.01 - CN US); **G06Q 20/389** (2013.01 - KR US); **H04L 9/0637** (2013.01 - KR US); **H04L 9/0643** (2013.01 - KR US); **H04L 9/30** (2013.01 - US); **H04L 9/3066** (2013.01 - CN EP KR); **H04L 9/3236** (2013.01 - CN EP KR US); **H04L 9/3239** (2013.01 - US); **H04L 9/3247** (2013.01 - EP KR US); **H04L 9/3252** (2013.01 - CN); **H04L 9/50** (2022.05 - CN EP KR); **G06Q 10/10** (2013.01 - US); **G06Q 2220/00** (2013.01 - KR US); **H04L 9/3066** (2013.01 - US); **H04L 9/3252** (2013.01 - US); **H04L 9/50** (2022.05 - US); **H04L 2209/56** (2013.01 - CN EP KR US)

Citation (search report)
• [X] "Mastering bitcoin : [unlocking digital cryptocurrencies]", 20 December 2014, O'REILLY MEDIA, Beijing Cambridge Farnham Köln Sebastopol Tokyo, ISBN: 978-1-4493-7404-4, article ANDREAS M. ANTONOPOULOS: "Mastering Bitcoin - Unlocking Digital Cryptocurrencies", XP055306939
• [A] BITFURY GROUP: "Smart Contracts on Bitcoin Blockchain", 4 September 2015 (2015-09-04), XP055382678, Retrieved from the Internet <URL:http://bitfury.com/content/5-white-papers-research/contracts-1.1.1.pdf> [retrieved on 20170619]

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US 2024211943 A1 20240627; WO 2018215871 A1 20181129; WO 2018215873 A1 20181129; WO 2018215874 A1 20181129;
WO 2018215875 A1 20181129; WO 2018215876 A1 20181129; ZA 201907255 B 20240925; ZA 201908400 B 20230628

DOCDB simple family (application)

IB 2018053336 W 20180514; CN 201880033760 A 20180514; CN 201880033781 A 20180514; CN 201880033813 A 20180514;
CN 201880033814 A 20180514; CN 201880033816 A 20180514; CN 201880033817 A 20180514; CN 202310793753 A 20180514;
CN 202311131068 A 20180514; CN 202410616725 A 20180514; CN 202410624131 A 20180514; EP 18728977 A 20180514;
EP 18728978 A 20180514; EP 18728979 A 20180514; EP 18728980 A 20180514; EP 18729193 A 20180514; EP 18729194 A 20180514;
EP 23177716 A 20180514; EP 23177730 A 20180514; IB 2018053335 W 20180514; IB 2018053337 W 20180514; IB 2018053338 W 20180514;
IB 2018053339 W 20180514; IB 2018053340 W 20180514; JP 2019563153 A 20180514; JP 2019563172 A 20180514;
JP 2019563234 A 20180514; JP 2019563244 A 20180514; JP 2019563265 A 20180514; JP 2019563279 A 20180514;
JP 2022133007 A 20220824; JP 2022180734 A 20221111; JP 2023023944 A 20230220; JP 2023112985 A 20230710;
JP 2023112988 A 20230710; JP 2023130569 A 20230810; JP 2024032617 A 20240305; JP 2024082268 A 20240521;
KR 20197035446 A 20180514; KR 20197035454 A 20180514; KR 20197035474 A 20180514; KR 20197035496 A 20180514;
KR 20197035513 A 20180514; KR 20197035524 A 20180514; KR 20237030465 A 20180514; KR 20237030467 A 20180514;
KR 20237041839 A 20180514; KR 20247026452 A 20180514; SG 10202112659X A 20180514; SG 10202112667U A 20180514;
SG 10202112668X A 20180514; TW 107116934 A 20180518; TW 112139852 A 20180518; US 201816615801 A 20180514;
US 201816615802 A 20180514; US 201816615806 A 20180514; US 201816616278 A 20180514; US 201816616315 A 20180514;
US 201816616341 A 20180514; US 202217952851 A 20220926; US 202218064814 A 20221212; US 202318200507 A 20230522;
US 202318243607 A 20230907; US 202318243614 A 20230907; US 202318243616 A 20230907; US 202318399582 A 20231228;
ZA 201907255 A 20191031; ZA 201908400 A 20191217